Department of Computer Science

Undergraduate courses

your future = the future

Where will Computer Science take you?
Welcome to the Department of Computer Science at the University of York

Now, more than ever, computer scientists are at the forefront of the modern world, as our society embraces technology. You can see the effects of Computer Science research everywhere – in your home, on our roads, and even in your pocket.

Here at the University of York, we are proud to be at the cutting edge of this dynamic discipline. Our excellent reputation for both teaching and research sees us firmly established as a top UK Computer Science department.

At York you can take advantage of our industrial partners to feed back for when you graduate. We also ask what you will study to develop new ideas and technologies that will become normal parts of everyday life. Beyond this will be technological developments we can’t even imagine yet, and perhaps within our lifetimes, artificial general intelligence that surpasses human intelligence.

So how does the subject of Computer Science relate to this progress? We teach and research the theoretical ideas and practical techniques that underpin all of these developments. A Computer Scientist understands how computers make the world work as it does. They also have the knowledge necessary to develop new ideas and technologies to do things that haven’t been done before.

The most exciting thing is that we are only at the start of this transformation. In the near future, technologies such as virtual reality, driverless cars, robot surgeons and drone postmen will become normal parts of everyday life. Beyond this will be technological developments we can’t even imagine yet, and perhaps within our lifetimes, artificial general intelligence that surpasses human intelligence.

Will Smith
Admissions Tutor

Computer Science = the future

Computer science has transformed the world beyond recognition. From the embedded system controlling your car to your smartphone to international banking networks handling billions of secure transactions everyday, computational systems are woven into the fabric of our lives and society. Social media has fundamentally changed the way we communicate and form and maintain relationships. The internet has revolutionised business - three of the five most valuable companies in the world are computer technology companies. Music and movies are recorded, edited and distributed digitally. The influence of computing also extends to other sciences. Research endeavours such as the Large Hadron Collider, the Human Genome Project and measuring and modelling the effect of climate change depend upon our ability to capture and interpret vast datasets, only possible with fast computation and clever algorithms.

One of the UK’s top Computer Science departments
We are a top UK Computer Science department - based on the quality of our research and the employability of our graduates.

We teach Computer Science in a broad and principled way giving you a thorough grounding in the theory as well as the practice and you can choose to study different areas as you progress through the course.

You will have excellent career prospects – our graduates are highly sought after in the workplace.

Our strong links with industry ensure that our courses are current in such a dynamic and fast-moving sector.

Our high-staff:student ratio provides a supportive and friendly environment which gives you quality time with academic staff and easy access to your personal supervisor.

Our purpose-built facilities include up-to-date computer labs that are accessible 24 hours a day, seven days a week.

York has excellent transportation links – you can reach London in under two hours, and there are international airports at Leeds and Manchester.

Key reasons to study Computer Science at York

- Our strong links with industry ensure that our courses are current in such a dynamic and fast-moving sector.
- You will be taught by academics at the cutting edge of their field and you will learn about, and get involved with, the latest advances in Computer Science through research, projects and practical work.
- You can choose to work for a year in industry, putting into practice what you have learnt in your degree.
- We have a dedicated Industrial Placement Manager who will support you throughout the process.
- Our lakeside purpose built accommodation includes software and hardware laboratories, research laboratories, teaching spaces and a brand new social learning area. Our hardware labs, including one sponsored by Crossrail, the largest civil engineering project in Europe, give students the chance to study embedded computer systems which are used in applications as diverse as cars, aeroplanes and mobile phones.

“I particularly like how the first two years of the degree give a real insight into as many core aspects of Computer Science as possible. This has helped me to find what I am interested in, so I can choose modules for later in the course that I know I will enjoy.”

Luiza
BEng (Hons) Computer Science with a year in industry
Our employability statistics, one of the best for a UK Computer Science department, reflect the success of our links with industry. Large multinationals such as IBM UK, Airbus, Thales UK, and Morgan Stanley take on our students for industrial placements and later recruit them for future careers. Smaller, more local companies, also engage with our students giving a range of different sizes and types of businesses.

Our Industrial Advisory Board, made up of industry professionals from organisations including BAE Systems, Thales UK, IXAX Software, MoSd International, ETAS, Rolls-Royce plc, and Philips Research UK, ensures that our students are at the forefront of industrial developments and are highly sought after in the workplace.

We regularly invite speakers from large and small companies to bring their knowledge and perspective on the application of Computer Science. The course includes the opportunity to learn and participate in setting up your own business and to develop entrepreneurial skills.

Connections with industry

The Department of Computer Science has a long history of successful collaboration with industry. This ranges from ensuring our teaching is relevant to emerging trends, to working with leading businesses across a range of industries.

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Computer Science graduates from York are highly successful in finding good quality employment after graduating, with nearly 95 per cent of our graduates going on to employment or further study within six months, one of the best rates for a UK Computer Science department.

Many of our graduates are employed in the software and electronics industries, but the expansion of technology in business means that you will be in demand by a wide range of organisations.

Throughout your course you will develop the ability to solve problems and produce effective solutions, a skill well recognised and valued by employers. You will have the opportunity to work on practical projects to develop and demonstrate your research, management and communications skills, and by the end of your course, your sharpened thinking and analytical skills will be invaluable and make you highly employable.

**Computer Science = your future**

**What can you do with a degree in Computer Science?**

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**Strong links with industry**

**Solve problems and produce effective solutions**

**Tom Brearley**

Software Engineer, Twitter Inc

BEng (Hons) Computer Science, 2010

“I was looking for a degree that had practical applications in the real world. The team project and mixture of modules available meant that I was able to evolve a sense of working in real world environments, so the transition to working life was natural for me.”

Georgina Porter

Global Payments

Programme Manager, Shell

MEng (Hons) Computer Science, 2007

“Most jobs asking for a degree don’t specify which subject. Lots of our students go into Computer Science and IT jobs but many go into a wider range of careers such as banking, law and the public sector.”

Susan Stepney

Professor of Computer Science

“Tom Brearley started Twitterfall, which The Daily Telegraph called ‘Google for the Twitterverse’, with David Somers while studying at York. As a result of this, Tom now works for Twitter in California as a Software Engineer.

“I learned the technical reasons behind why things work in my degree, so when developing Twitterfall, I knew how to make it faster and why.

The course taught me that a good computer scientist breaks things down into the smallest parts and builds them up from there.

I really enjoy my role at Twitter, especially the team and people I work with.”

Tom Brearley

Software Engineer, Twitter Inc

BEng (Hons) Computer Science, 2010

Strong links with industry

Solve problems and produce effective solutions
We encourage you to develop your professional competence as well as your intellectual adventure. You will learn how to think about important general questions, such as 'What is computable?', 'What can computers do better than humans?' and 'What can we do better than computers?'

The early part of each of our courses comprises core Computer Science, which gives you a solid foundation in the subject. In later years you can select modules which are closely related to the Department's world-leading research, allowing you to sharpen your focus on what interests you and to exercise your creativity.

You can choose either a three-year Bachelors degree or a four-year Masters degree. Doing a Masters gives you an extra year to study topics at a deeper level and connects you with current, leading research being undertaken in the Department.

Each course is also available with an additional year in industry, which you take after your second year.

**Computer Science degrees at York**

At York, Computer Science is taught as a broad subject, where you cover theory as well as practice, and hardware (electronics) as well as software (programs). For both the design and application of computer systems, you will require creative flair, imagination and an enthusiasm to make things work.

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"Computer Science is not just about learning new programming languages. I also enjoy projects like designing an iPhone application in a team and programming robots. The course content is quite complex, but lecturers are always willing to help and answer our questions if something is not clear."

Anastasija
MEng (Hons) Computer Science with Artificial Intelligence, with a year in industry

If you choose to study for an MEng (Hons), you’ll experience advanced teaching. You’ll learn cutting edge developments drawn straight from research carried out in the Department.

Computer Science with Artificial Intelligence MEng (Hons)

Artificial Intelligence (AI) is concerned with the development of computational systems that are intelligent. You can investigate how human reasoning and behaviour can be imitated, and even surpassed, by computer systems in language understanding, vision and games.

The first two years provide a solid foundation in core areas of Computer Science, and introduce some of the fundamental AI concepts. In the third and fourth years you concentrate on developing a solid knowledge in one or more of the four main AI themes: natural language processing, machine learning and automated reasoning, intelligent agents, and pattern recognition and computer vision. You work alongside staff in world-leading research areas working on the latest achievements in the field.

Computer Science with Embedded Systems Engineering MEng (Hons)

Embedded systems refers to the computer systems in a multitude of devices such as cars (engine management systems), mobile phones, aeroplanes, medical equipment, kitchen appliances and so on. Embedded systems are detailed and comprehensive as they must operate in real-time, reliability and safety in a user-friendly manner.

Our MEng (hons) prize is sponsored by Crossrail, which is delivering the new railway for London and the South East, Europe’s largest civil engineering project.

You will have the opportunity to visit Crossrail’s premises or take your year in industry on the project, for first-hand experience of working with embedded systems.

You will gain a solid grounding in Computer Science for the first two years of study, including the foundations of embedded systems, with advanced modules in the third and fourth years.

Computer Science and Mathematics BSc (Hons).

Mathematics is strongly connected to Computer Science in many ways and so we offer both Bachelors and Masters level courses in this joint discipline.

Both courses have equal weighting between Computer Science and Mathematics in the first two years with a solid foundation across the two subjects. In subsequent years you can choose to study slightly more Computer Science than Mathematics or vice versa. Your individual project can be in either Computer Science or Maths.

Accreditation

Our single subject Integrated Bachelors courses are accredited by the Institute of Engineering and Technology (IET) and the BCS, the Chartered Institute for IT, as fully meeting the educational requirements for Chartered Engineer status, while our single subject Bachelors courses are accredited as partially meeting that requirement.

For more information about the professional accreditation of our courses, go to cs.york.ac.uk/ undergraduate/accreditation

For more details of our degree courses see cs.york.ac.uk/ undergraduate/bachelors

"One of the things that sets York apart is the way the course covers computer hardware. Understanding the low-level concepts is key to becoming a good computer scientist. For me, the most interesting parts of the course have been project work, such as building a heartbeat monitor during my second year. Working in groups can be really rewarding and it is satisfying to watch everything come together."

Alex
MEng (Hons) Computer Science with Embedded Systems Engineering
Choose modules you are interested in and become involved in the latest research at the University of York, where the first two years of study lay the foundation for Computer Science. After this, you are able to take a year in industry (between your second and third years) or progress onto the third and fourth years of your chosen course. In the third year, the optional modules follow a similar pattern to the first and second years. You will be able to choose a number of modules and you will also be working on a project, which is a very important part of your course.

If you choose to study for an MEng (Hons) award, you will choose modules related to your specialization as well as from the broader modules available. In the fourth year, the modules access research being undertaken in the Department at an advanced level. As this is your final year, you will be working on a team project, which is designed in collaboration with industry.

Solid foundations in Computer Science

What you will study

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"We have found the York Computer Science students to be of an exceptionally high standard. Because the degree appeals to a diverse population, we find that students use their computer knowledge in a multitude of ways and this provides a great variety of skill sets from which to select."

Dan Oldfield IT Director, YorkTest Laboratories

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"The staff are always happy to help and you can contact them with questions on anything you find difficult. You also have a supervisor who you meet at the start, middle and end of term, with whom you can raise any issues that you’re concerned about."

George MEng (Hons) Computer Science with Embedded Systems Engineering, with a year in industry

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Joint courses in Computer Science and Mathematics: There is an equal weighting between the two subjects in the first two years. In later years, you can choose to specialize in either subject.

The range of modules that we offer is subject to change. This is to ensure that our courses reflect the latest advances in Computer Science. For details of our current modules, go to york.ac.uk/students/studying/managed/programmes and select ‘Module catalogues’. Choose ‘Computer Science’ from the list of departments and 2017-18 for the academic year.
We pride ourselves on excellent relationships with a strong portfolio of companies. These include: Airbus UK, Amadeus, BAE Systems, Sophos, Philips Research, Sanger Institute, Goldman Sachs, IBM, Mercedes GP, Thales Underwater Systems, and Codemasters.

Your year in industry takes place between your second and third years and is a recognised part of your degree. You do not need to make a firm decision about whether to take a year in industry until the Summer Term of your first year. However, if you are considering a course with a year in industry, you should apply for one, as it is easier to shorten your funding than to lengthen it.

Our dedicated Industrial Placement Manager helps you throughout the process. This includes identifying a range of possible opportunities, in large and small companies, helping you prepare your applications and for job interviews, and should you be successful, visiting you in the workplace.

We also find that students who do a year in industry obtain better grades, mature a great deal and develop a breadth of skills, becoming highly valuable and attractive to future employers.

"The experience of being in industry was invaluable, especially working with colleagues from other disciplines such as management and finance. The work ethic I picked up gave me a good perspective on what I needed for the world of work. It also helped me to focus on the rest of my degree and I am sure it helped me to get a better result!"

James Stovold
Data Analyst, Hiscox
MEng (Hons) Computer Science with a year in industry, 2012
PhD Computer Science, 2016

"Choosing to spend a year in industry is highly recommended. It gives you experience in the workplace, and the chance to use what you have learned during your degree. All our students receive a realistic salary during their placement, so you will also be paid!

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"For more than a decade, dozens of York Computer Science students have participated in a year in industry at Thales. We look for communication and teamwork skills and a positive can-do attitude, which of course needs to be underpinned by a basic technical level of programming expertise. It is our experience that York students have no problems in achieving this."

Martin Sharman
Resource Manager, Thales Group

"My year in industry was one of the best decisions I ever made. I realised how to take the skills and knowledge I learned from lectures and apply them to real-world situations and how to effectively deliver presentations to large audiences. As a student, I was very grateful for the opportunity to work for an international company. It made me even more focused on my career aspirations."

Priya Vasan
Software QA Engineer, Thomson Reuters
BEng (Hons) Computer Science with a year in industry, 2012
The demand for skilled computer scientists continues to rise

We encourage you to widen your skills

Teaching, learning and your personal development

Personal supervisor
Every student in the Department of Computer Science has a supervisor, who is a member of the academic staff. Your supervisor will meet you regularly and guide you through your studies and is someone who you can turn to for assistance. He or she is normally your first port of call if you have an academic problem, but supervisors help with personal issues as well. You normally keep the same supervisor throughout your studies until you reach the project stage of your course, when you will be given a specialist in the subject area associated with your project.

"Our courses are designed to give you strong theoretical foundations that will accompany you throughout your professional lifetime. We also expose you to real-world problems through industrial placements and collaborative projects to help you develop your employability skills. Overall, a top-class department in excellent facilities on a purpose-built campus located in one of the most beautiful cities in the country is a combination that is really hard to beat." Dimitris Kolovos, Reader

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Personal development
We are dedicated to the personal development of our students. We encourage you to develop professional skills to increase your employability prospects, including offering CV and interview coaching, help with your presentation style and an exploration of the professional issues in Computer Science. You are encouraged to widen your experience and skills and develop your non-academic interests during your time at University. You can get involved with a huge variety of extra curricular activities at York, including volunteering, University clubs and societies or the opportunity to learn a new language.

Opportunities to study abroad
The University operates a worldwide exchange programme that allows students to pursue international interests, and we have links with universities in North America, Asia and Australia. A year abroad would replace your corresponding year at York and the marks you attain contribute to the classification of your York degree. If you are interested in the scheme you do not need to indicate this on your application form; you can discuss the opportunities which are available with your supervisor once you arrive in York.

Teaching and learning
There are a variety of modes of assessment, including traditional closed examinations, open assessments, coursework and other activities, such as project demonstrations, appropriate to the subject matter and level. The most significant open assessment which you will undertake is your final year project which contributes significantly towards your final mark.

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"One of the most rewarding aspects of the job for me is having a creative idea for the solution to a research problem and then seeing this 'breathe life' into a concrete implementation. I really enjoy one-to-one supervision of students on individual research projects and helping them to achieve results." Nick Pears Senior Lecturer

"We want all of our students to enjoy their time at York, and we do understand that sometimes a little extra support is needed. We're here to make sure that you get the help you need, whether it be about your studies or your own well-being. The student team here in Computer Science is happy to listen and provide advice, and can point you in the direction of specialist advisors who will be able to guide you further." Debra Lashua Academic Administration Manager

Teaching, learning and your personal development

The number of hours scheduled for lectures, programming classes, laboratory periods and tutorials is between 15 and 20 per week. However, much of the required learning is achieved outside the scheduled timetable. Consequently, students are expected to be self-motivated, self-disciplined and willing to learn outside regular class hours. The Department boasts a high staff:student ratio which means that our students benefit from quality time with academic staff.

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“York emphasises programming concepts rather than a particular programming language. This gives the building blocks to pick up any programming language with ease. From an engineering point of view, York provides modules that teach various parts of the engineering process. My year in industry gave me the opportunity to put such processes into practice.”

Ralph
MEng (Hons) Computer Science, with a year in industry

International students

The Department of Computer Science at York is truly multicultural and our international students form an important part of our community. We welcome students from all over the world. We realise that you are along way from home and sometimes you may require additional support services.

We offer our international students:

- Dedicated support services with the International Support Office.
- Support and guidance including an Immigration Advice Service, student orientation, an International Students’ Association and help with housing, health and finances.
- A dedicated member of our academic staff, who has overall responsibility for international matters, and has studied himself as an international student. He is available to provide specialist support, and to co-ordinate activities for international students.
- A range of courses at the Centre for English Language Teaching to further develop and improve English language skills.

For further information about English Language skills. Please visit york.ac.uk/celt for more information.

If your first language is not English, and you have not been taught predominantly in English, you will be expected to provide evidence of your English language ability. Please check york.ac.uk/study/international for details.

Essential subjects

Our normal requirement is grade A in Mathematics A level or equivalent, plus grade A in two further subjects at A level or equivalent for our MEng courses. For BEng courses we require AAB including Mathematics. For joint courses, you will always need to achieve a grade A in Mathematics.

If we receive your application form and are impressed by your grades, personal statement and references, we will invite you to attend an interview. Alongside your UCAS application form, your performance at interview is one of the factors we consider when making a decision on your application, and will have an impact on the level of offer that we may give you.

If you are unable to come to an Open Day, we are happy to organise an individual visit to the Department. Contact our admissions team to arrange a time.

How to apply

All applications for our degree courses should be made through UCAS (ucas.com). We are very happy to offer you advice before and during the admissions process. Please contact our admissions team at cs-ug-admissions@york.ac.uk or cs-ug-admissions@york.ac.uk

We offer our international students:

- Additional support services.
- We welcome international students from all over the world. We realise that you are along way from home and sometimes you may require additional support services.

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We welcome students from all over the world.
The University of York is a Russell Group University and one of the world’s premier institutions for inspirational and life-changing research. This feeds directly into the teaching you’ll receive.

The University’s campus is on the edge of the historic city of York, where our colleges are set in an attractive lakeside setting. It is compact, easy to get around, and has a safe, friendly atmosphere.

As a Computer Science student you will study at our lakeside state-of-the-art facilities on Campus East.

We offer you:
- A very high-quality academic experience
- A commitment to enhancing your employability
- A strong reputation for student support
- A welcoming college system
- 24/7 student welfare support
- Affordable and plentiful accommodation
- A lively and stimulating environment
- A beautiful location in one of Europe’s finest cities, with easy access from anywhere.

For further information about life as a student at York visit: york.ac.uk/study/student-life

“International reputation for teaching and research
State-of-the-art facilities on the campus expansion”

“The campus is beautiful and it’s great being in Computer Science on Campus East which has lots of modern buildings with high tech labs and lecture theatres. York itself is an absolutely beautiful city, with (my personal favourite) the magnificent Minster, charming little streets and cafes and a vibrant night life! What else can you really wish for?”

Alina, BSc (Hons) Computer Science with Mathematics, with a year in industry

“International reputation for teaching and research
State-of-the-art facilities on the campus expansion”

“A Computer Science degree in York prepares graduates for the workplace at all levels. York collaborates with industry to ensure that they keep up with emerging trends in such a dynamic sector. They prepare graduates to adapt quickly, and it is for these reasons graduates from York are able to integrate with Amadeus easily.”

Jeffrey Hau
HR Business Partner
Amadeus
For full details of all the courses available and information about the Department, please see our website at cs.york.ac.uk/undergraduate

Join the world-leading Department of Computer Science at the University of York. We are a leading department with impressive credentials and a supportive atmosphere. We will provide you with a myriad of opportunities to develop your Computer Science knowledge and equip you with skills to go out and change the world.